

# PATENT ABSTRACTS OF JAPAN

(11) Publication number : **09-187040**

(43) Date of publication of application : **15.07.1997**

(51)Int.Cl.

H04N 13/02

G02B 7/08

G03B 5/00

G03B 35/08

H04N 5/232

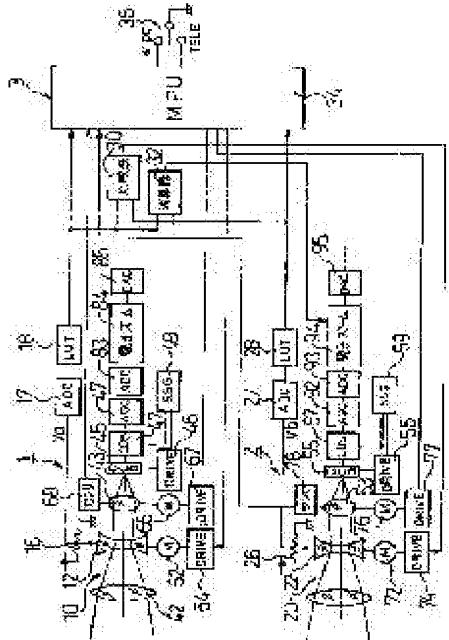
(21) Application number : 07-342751

(71)Applicant : **FUJI PHOTO OPTICAL CO LTD**

(22) Date of filing : **28.12.1995**

(72)Inventor : KANEKO KOJI

## (54) DRIVER FOR ZOOM LENS



(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a driver for a 3D zoom lens in which left/right image pickup magnification is matched with high accuracy by controlling electronic zooming so that one image magnification is coincident with other image magnification based on zoom position data denoting image pickup magnification of left/right zoom lenses.

**SOLUTION:** Zoom positions of left/right magnification lenses 12, 22 are detected respectively by position detectors 16, 26 as zoom position voltages Va, Vb, the zoom position voltage is A/D-converted and LUTs 18, 28 are used to correct the zoom position data in order to make the detection characteristic of both the position detectors in matching with each other. The zoom position data are fed to a comparator 30 and a motor driver 74 for driving the magnification lens 22 is controlled based on the

output of the comparator 30. Furthermore, the magnification of the electronic zoom of an electronic zoom circuit 94 is controlled based on the zoom position data to eliminate a slight error in the image pickup magnification during tracing drive of the magnification lens 22 on an image.

